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MATERIAL SAFETY DATA SHEET

ALVANIA EP LF GREASE 2

ORDERS 17322 CUSTOMER: TACOMA, WA

HAZARD RATINGS / EMERGENCY (4 = EXTREME)

* MAKEN SLIGHT (1) * MAKE SLIGHT (1) * MAKEN SL

INGREDIENT COMPOSITION

***COMPOSITION

***CO

HEALTH INFORMATION

ACUTE TOXICITY DATA; SEVERELY SYTROTREATED HEAVY MAPRIMENIC DISTILLATE. CASA: 64742-52-5; ACUTE ORAL

LD50; >5.0 G/KG (RAT); ACUTE DERNAL LD50; >2.0 G/KG (RABBIT); SULFURIZED LARD OIL. CASA: 61790-49-6;

ACUTE ORAL LD50; >16.000 MG/KG (RAT); ACUTE DERNAL LD50; >2.000 MG/KG (RABBIT). THE HEALTH EFFECTS NOTED

BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 GFR 1910.1200).

EYE CONTACT: LUBRICATING GREASES ARE GENERALLY CONSIDERED NO MORE THAN MINIMALLY IRRITATING TO THE EYES.

SKIN CONTACT: LUBRICATING GREASES ARE GENERALLY CONSIDERED NO MORE THAN MILDLY IRRITATING TO THE EYES.

SKIN CONTACT: LUBRICATING GREASES ARE GENERALLY CONSIDERED NO MORE THAN MILDLY IRRITATING TO THE SKIN.

PROLOMED OR REPEATED LIQUID CONTACT CAN REBULT IN DEPATTING AND DRYING OF THE SKIE WHICH MAY RESULT IN

SKIN IRRITATION AND DERMATITIS. RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN IMJECTION OF GREASE

INTO THE SKIN CAUSING LOCAL MECROSIS. INHALATION: NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE:

HOWEVER. UNDER HIGH TEMPERATURE CONDITIONS, VAPORS IRRITATING TO THE NOSE, THROAT AND UPPER RESPIRATORY

TRACT MAY BE PRODUCED. INGESTION: LUBRICATING GREASES ARE GENERALLY CONSIDERED NO MORE THAN SLIGKTLY

TOXIC IF SHALLOWED. SIGNS AND SYMPTOMS: IRRITATION AS MOTED ABOVE. ACCRAVATED MEDICAL CONDITIONS:

INFORMATION: NOME IDENTIFIED.

OCCUPATIONAL EXPOSURE LIMITS OSHA PEL/IVA: NOT ESTABLISHED.

EMERGENCY AND FIRST AID PROCEDURES
INDIVIDUAL REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL
ATTENTION. EXECUTED PLUSH ETES WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. EXECUTED PROVIDED PROVIDED

PHYSICAL DATA

EQUATION CONTROL NOT AVAILABLE ENTITY CONTROL NOT AVAILABLE ENTITY OF 350.6 (DROPPIEG POINT) ERECTRIC CHAVITY (STORY OF AVAILABLE PARCETTE HOT AVAILABLE PARCETTE PARCETTE HOT AVAILABLE PARCETTE PARCETTE

FIRE AND EXPLOSION HAZARDS
FLASH PRINCIPLE AND EXPLOSION HAZARDS
FLASH PRINCIPLE AND EXPLOSION HAZARDS
FLASH PRODUCT WILL PLOAT AND CAN BE REIGNIZED OF SURFICE OF WATER. REPOSAL PRODUCT WILL PLOAT AND CAN BE REIGNIZED OF SURFICE OF WATER. REPOSAL PRODUCT WILL PLOAT AND CAN BE REIGNIZED OF SURFICE OF WATER. REPOSAL WITH FLASH PRODUCT WILL BOTH WATER APPROVED DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BURKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE WIGHT APPROVED SELF-CONTAINED SHEATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER. WHITH WATER WA

REACTIVITY

RESETENCE STABLE RECORDER FOR THE STRONG OXIDITIES WILL NOT OCCUR CONSTRUCTION OXIDITIES AND ADDRESS AVOID

HEAT. FLAME AND CONTACT WITH STRONG OXIDITING AGENTS, SEPTEMBOURD RECORDITIONS. A COMPLEX INSTRUCTION OF AIRBORNE

DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX INSTRUCTION.

SOLID, LIQUID, PARTICULATES AND GASES WILL EVOLVE WHEN THIS NATERIAL UNDERGOES PYROLYSIS OR COMBUSTION.

CARBON MONOXIDE, SULFUR OXIDES AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

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MATERIAL SAFETY DATA SHEET

ALVANIA EP LF GREASE 2

ORDERS 17322 CUSTOMER: TACOMA, WA

29 CPR 1910.134. USE EITHER AN ATMOSPHERE-SUPPLIING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS. PROTESTATESCHOPENDER AVOID PROLONGED OR REPEATED CONTACT WITH SKIE. WEAR GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY MITRILE GLOVES.

ENVIRONMENTAL PROTECTION

ENTITY DRIVETARE PROCEDURES: MAY BURN ALTHOUGH NOT READILY IGNITABLE. USE CAUTIOUS JUDGMENT WHEN CLEANING UP LARGE SPILLS. *** LARGE SPILLS *** WEAR RESPIRATOR AND PROTECTIVE CLOTHING AS APPROPRIATE. SMUT.OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE MITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABBORDENT HACE AS CLAY. SAND OR OTHER SUITABLE MATERIAL; DISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. *** SHALL SPILLS *** TAKE UP WITH AN ABSORDENT MATERIAL AND DISPOSE OF PROPERLY. PROPERLY. PROPERLY.

SPECIAL PRECAUTIONS

MINIMIZE SKIN CONTACT. WASE WITH SOAP AND WATER BEFORE EATING, DRINKING, SWOKING, APPLYING COSMETICS, OR USING TOILET FACILITIES. LAUNDER CONTANINATED CLOTHING SEFORE REUSE. CONTANINATED LEATHER ARTICLES INCLUDING SHOES CANNOT BE DECONTANINATED AND SHOULD BE DESTROYED TO PREVENT REUSE.

TRANSPORTATION REQUIREMENTS

DESCRIPTION TO THE STREET TO THE TOTAL TOTAL BY D.O.T. REGULATIONS DESCRIPTION TO THE TOTAL TOT

OTHER REGULATORY CONTROLS.

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES. IN ACCORDANCE WITK SARA TITLE III, SECTION 313, THE EDS SHOULD ALMAYS BE COFFED AND BENT WITK THE MSDS. STATE REGULATORY INFORMATION: BASED ON INFORMATION AVAILABLE TO SHELL, THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL SUBSTANCE LISTED ON A CHEMICAL SPECIFIC STATE LIST. THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, SHELL MAKES NO WARRANTY. EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO SE OBTAINED FORM THE USE THEREOF. SHELL ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED BEREIN. BE SAFE - READ OUR PRODUCT SAFETY INFORMATION...AND PASS IT ON (PRODUCT LIABILITY LAW REQUIRES IT). SHELL OIL COMPANY PRODUCT SAFETY AND COMPLIANCE P. O. BOX 4320 HOUSTON, IX 77210 DATE PREPARED: JULY 1, 1991 LILYBLAD PETROLEUM. INC., 2244 PORT OF TACOMA. WA 96421 EKF

MATERIAL SAFETY DATA SHEET

DIALA OIL AX

GROFER 17322 CUSTONER: TACOMA, WA

HAZARD RATINGS / EMERGENCY (4 = EXTREME)

* MARKEN; SLIGHT (1) * STATE SLIGHT (1) * STATE SHEET STATE SHEET FROM SERIL 713-473-9461 CHEMTREC 800-424-9300 LILYSLAD PET., DIST. 206-572-4402 SERIES STATE SHEET PRINCIPLE PRINCIPLE STATE STATE SHEET SHEET STATE SHEET S

INGREDIENT COMPOSITION

NOUN - DIALA OIL AX (MIXTURE . .) (MINING) - SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE (CASS: 64742-46-7) (開発記載 - SKVERELT HYDROTREATED LIGHT WASNITED DISTILLATE (CASS: 64742-53-6) (開発記載 - BUTYLATED HYDROXY TOLUMNE (CASS: 120-37-0)

HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITE REQUIREMENTS UNDER THE OBEA HAZARD COMMENICATIONS STANDARD (29 CFR 1910.1200). BYE CONTACT: BASED ON ESSENTIALLY SIMILAR PRODUCT TESTING, PRODUCT IS PRESUMED TO BE NOMIRRITATING TO THE EYES. SKIR CONTACT: BASED ON ESSENTIALLY SIMILAR PRODUCT TESTING, PRODUCT IS PRESUMED TO BE SLIGHTLY IRRITATING TO THE SKIR. PROLOCKED AND REPEATED CONTACT HAY RESULT IN VARIOUS SKIN DISORDERS SUCH AS DEPORTITIS, POLLICULITIS OR OIL ACME. RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING LOCAL MECROSIS, INHALATION: INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES OULT) OR OIL HIST HAY CAUSE A MILD IRRITATION OF THE MUÇGUS MEDIGRAMES OF THE UPPER RESPIRATORY TRACT. INCESTION: INGESTION OF PRODUCT MAY RESULT IN VOMITIME: ASSIBATION (SREATHING OF VOMITUS INTO THE LUNGS) MUST BE AVOIDED AS EVEN SMALL QUANTITIES MAY RESULT IN ASPIRATION PREUMONITIS. SIGNS AND SYMPTOMS; KRRITATION AS BOTTO ABOVE. ASPIRATION PREUMONITIS MAY BE EVIDENCED BY COUGKING, LABORED BREATHING AND CYMNOSIS (BLUISK SKIN): IN SEVERE CASES DEATH MAY GCCUR, LOCAL MECROSIS IS EVIDENCED BY DELAYED ONSET OF PAIN AND TISSUE DANGE A MEM SOURS POLLOWING INJECTION; AGGRAVATED MEDICAL CONDITIONS: PREEXISTING SKIN AND RESPIRATORY DISORDERS WAY BE ACCURAVATED BY EXPOSURE TO THIS PRODUCT. SUPPLEMENTAL HEALTH IMPORMATION: MAGOE HAS REPORTED TO THE U.S. EPA PURSUANT TO SECTION 8(E) OF TSCA THAT A SAMPLE OF HYDROTERATED MIDDLE DISTILLATE (CAS REGISTRY MURBER 64742-66-7) AMPLIED REPEATEDLY TO THE SKIN OF EXPERIMENTAL ANIMALS OVER THEIR LIFETING PRODUCED A WEAK TUMORIOUSIC RESPONSE IN THE SKIN. THE FULL REFINING/PROCESS HISTORY OF THIS SAMPLE WAS NOT PROVIDED IN AMSOCO'S SUBMISSION.

OCCUPATIONAL EXPOSURE LIMITS
OSIA - PEL/TWA = 5 MG/M3* ACGIE - TLV/TWA = 5 MG/M3* - TLV/STEL = 10 MG/M3* *OIL MIST. MIMERAL

EMERGENCY AND FIRST AID PROCEDURES
THERETION: REMOVE VICTIM TO PRESE AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET; MEDICAL
ATTENTION. RESOURCE FUSH ETHS WITH WATER. IF TRRITATION OCCURS, GET MEDICAL ATTENTION. RESOURCE
CONTAINED REMOVE CONTAMINATED CLOTHING/SEGES AND WIPE EXCESS FROM SKIN, FLUSH SKIN WITH WATER. FOLLOW BY
WASHING WITH SOAP AND HATER. IF IMPLITATION OCCURS, GET HEDICAL ATTENTION. IF MATERIAL IS INJECTED UNDER
THE SKIN, GET MEDICAL ATTENTION PROMPTLY TO PREVENT SERIOUS INJURY. INCRESSES DO NOT INDUCE VONITING.
IF VONITING OCCURS SPONTAMEDUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS.
GET HEDICAL ATTENTION. NOTE TO PHYSICIAN: IF MERE TRANS 2.0 ML PER KG HAS BEEN INCRESTED AND VONITING HAS
NOT OCCURRED. EMESIS SHOULD BE INDUCED WITH SUPERVISION. KEEP VICTIM'S HEAD BELOW RIPS TO PREVENT
ASPIRATION, IF SYMPTOMS SUCH AN LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS,
GASTRIC LAVAGE USING A CUFFED ENDOTRACHEAL TURE SHOULD BE CONSIDERED.

FIRE AND EXPLOSION HAZARDS

RECOMMENDMENT AND RECOMMENT 295 DEG. F (COC) EXPLOSION FOR THE WILL SERVICE STATES UPPER: N/AV, LOWER:

M/AV EXIMITERED MATERIX USE MATER FOG, FOAM, DRY CHEMICAL OR CO2. DO NOT USE A DIRECT STREAM OF WATER.

PRODUCT WILL FLOAT AND CAN BE REIGHTED ON BURFACE OF WATER. PRESIDE WATER WATER FROM MATERIAL

WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER COMPINED PIRE-SPACE WITHOUT FULL BURNER GEAR (HELMET WITH

FACE SHIELD, BUNNER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE-PRESSURE MIGSELAFFROVED

SELF-CONTAINED BREATHING APPARATUS, COOL FIRE EXPOSED CONTAINERS WITH WATER. SERVICE MATERIAL MATERIAL WATER.

REACTIVITY

STANLE HAZARDUM HEAT OF THE COMPUNITION OF THE COMPUNITION CONDITIONS. A COMPUNITION OF AIRBORNE SOLID, LIQUID, PARTICULATES

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MATERIAL SAFETY DATA SHEET

DIALA OIL AX

ORDER 17322 CUSTOMER: TACOMA, WA

AND CASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES FYROLYSIS OR COMBUSTION, CARBON MONOXIDE AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

EMPLOYEE PROTECTION

RESPERANCE AND THE EXPOSURE MAY OR DOBE EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. 4) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITE 29 CFR 1910.134 USE SITEER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR POR ORGANIC VAPORS AND PARTICULATES. PROTECTIVE CLOTHING WEAR CHEMICAL PRESISTANT GLOVES AND OTHER PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE SKIN CONTACT. NO SPECIAL EYE PROTECTION IS ROUTINELY NECESSARY. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY MITRILE GLOVES.

ENVIRONMENTAL PROTECTION

SECTION REPORT WAS CONTINUED BY SURN ALTHOUGH NOT READILY ICHITABLE. USE CAUTIOUS JUDGMENT WHEN CLEANING UP LARGE SPILLS. *** LARGE SPILLS *** WEAR EXSPIRATOR AND PROTECTIVE CLOTHING AS APPROPRIATE. SKUT OFF SOURCE OF LEAK IP SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR FURD TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT BUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL: DISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. SMALL SPILLS: TAKE UP WITE AN ABSORBENT MATERIAL AND DISPOSE OF PROPERLY. WATER STURDERS PLACE IN AN APPROPRIATE DISPOSAL PACILITY IN COMPLIANCE WITH LOCAL REGULATIONS. ENTERSUBERS PLACE IN AN APPROPRIATE DISPOSAL PACILITY IN SEC. 311 OF THE CLEAN WATER ACT. SPILLS ENTERING (A) SURFACE WATERS OR (B) ANY WATER COURSES OR SEVERS ENTERING/LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-88D2.

SPECIAL PRECAUTIONS

MINIMIZE BKIN CONTACT. WASH WITH SOAP AND HATER BEFORE EATING, DRINKING, SHOKING OR USING TOILET FACILITIES, LAUNDER CONTAMINATED CLOTHING BEFORE REUSE, PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, THAT CANNOT BE DECONTAMINATED.

TRANSPORTATION REQUIREMENTS

DESCRIPTION OF THE PROPERTY OF

OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TECA INVENTORY OF CHEMICAL SUBSTANCES. IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE EDS SHOULD ALMAYS BE COPIED AND SERT WITH THE MSDS. STATE REGULATORY INFORMATION: THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY IMDIVIDUAL STATES: OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS, FOR DETAILS ON YOUR REGULATORY REQUIREMENTS, YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE. STATE LISTED COMPONENT: SEVERELY HYDROTREATED LIGHT MAPHTEMIC DISTILLATE (CASS: 64742-53-6); PERCENT: 60-70; STATE CODE: MA. MA - MASSACRUSETTS SUBST. LIST. VOLATILE ORGANIC COMPOUNDS (VOC): TEIS PRODUCT IS EXEMPT FROM VOC REPORTING UNDER THE CALIFORNIA CLEAN AIR ACT. SECTION 94510 EXEMPTS ORGANIC COMPOUNDS THAT EITHER HAVE A VAPOR PRESSURE OF (0.1 MM HG & 20 DEG. C OR HAVE MORE THAN 12 CARBON ATOMS. THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT, HOWEVER, SHELL MAKES NO WARRANTY, EXPRESSED OR INPLIED, REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SHELL ABSURES NO RESPONSIBILITY FOR INJUNY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN. BE SAFE, READ OUR PRODUCT SAFETY INFORMATION... AND PASS IT ON (PRODUCT LIABILITY LAW REQUIRES IT) SHELL OIL COMPANY PRODUCT SAFETY AND COMPLIANCE F. O. BOX 4320 HOUSTON, IX 77210 DATE PREPARED: FEBRUARY 21, 1993 LILYBLAD PETROLEUM, INC., 2244 PORT OF TACOMA, WA 96421 SKF